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Gamma Irradiation  
of Dried Urokinase Suspended in PPG400

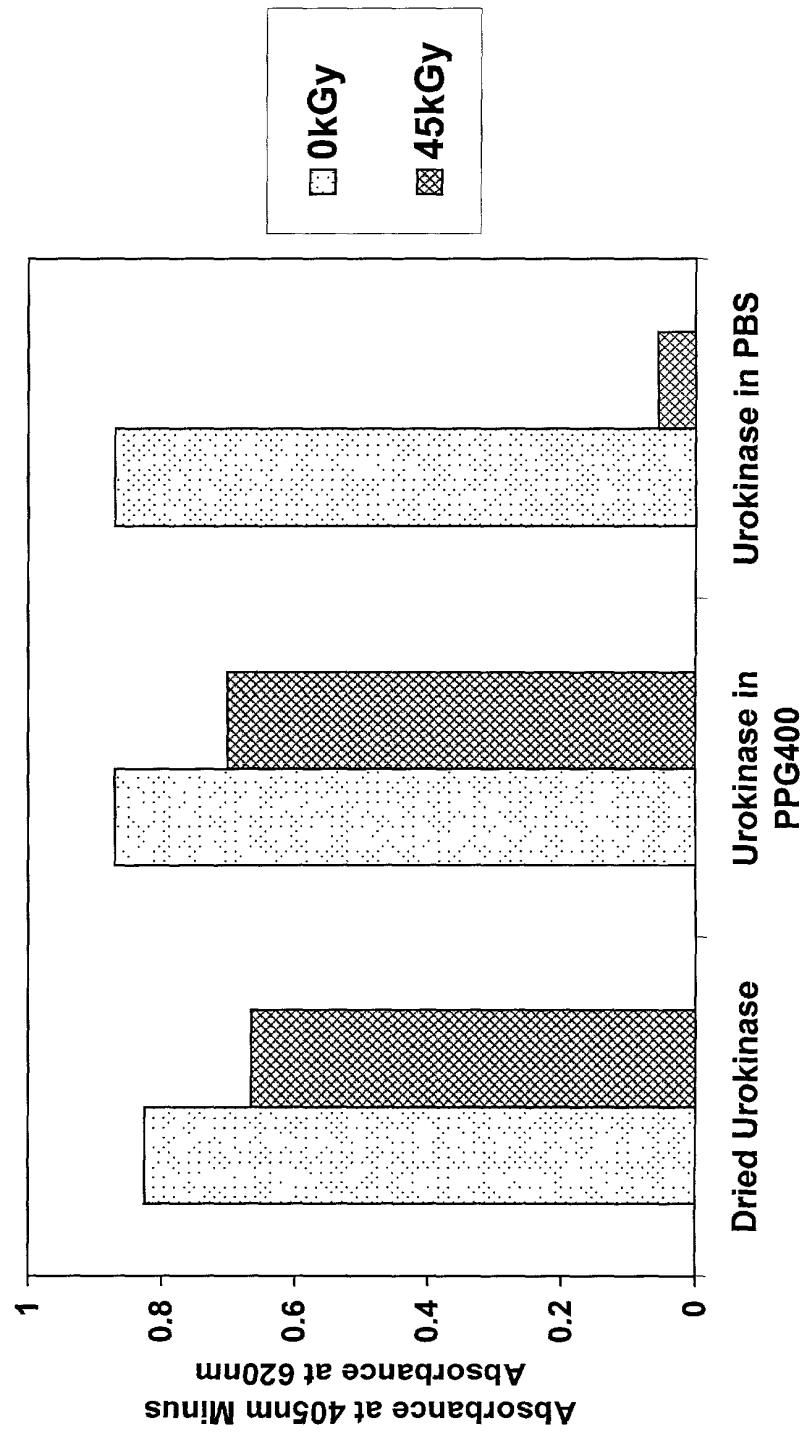


FIG. 1

Gamma Irradiation of Immobilized Monoclonal  
Antibody in the Presence of Various PPGs

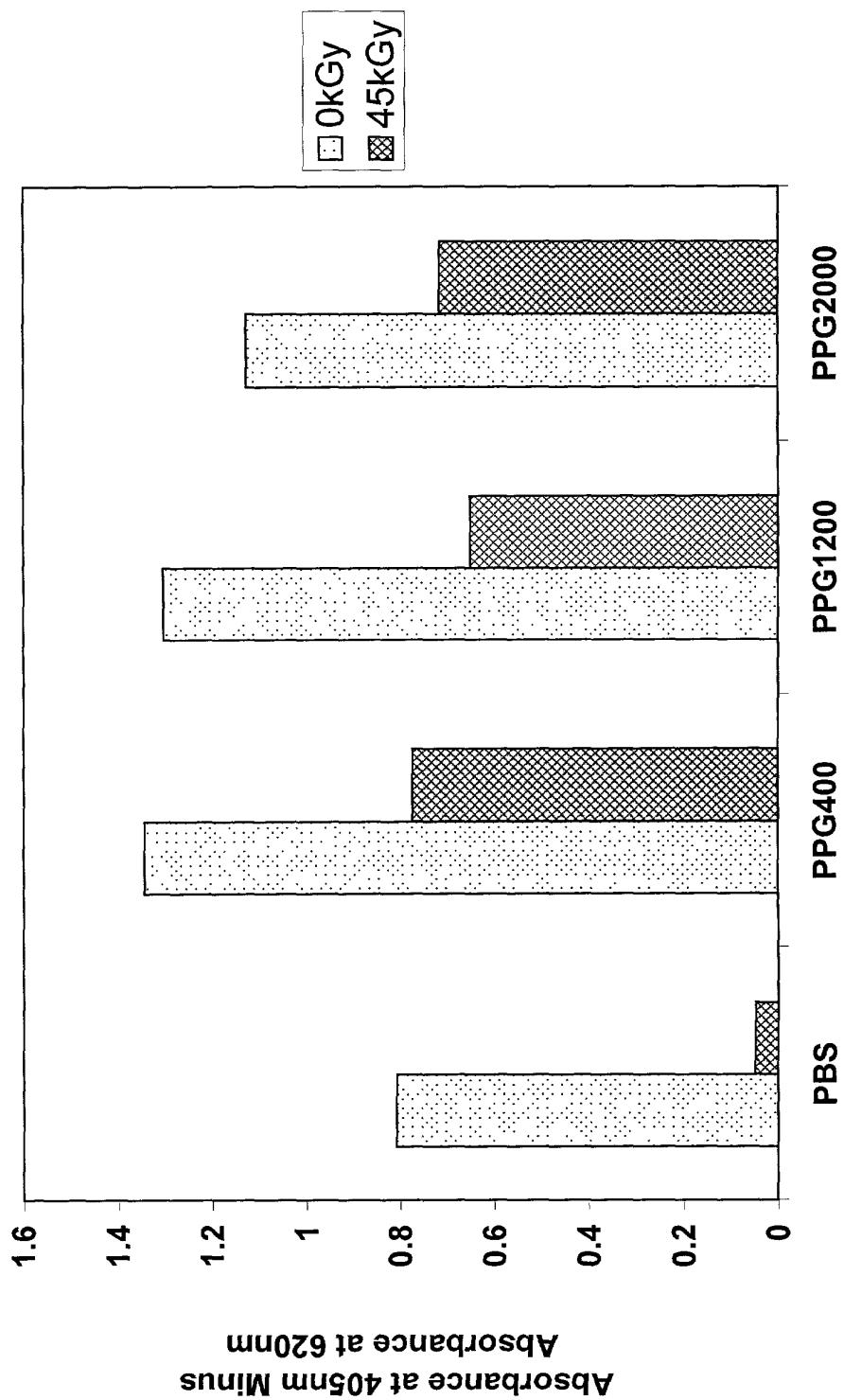


FIG. 2

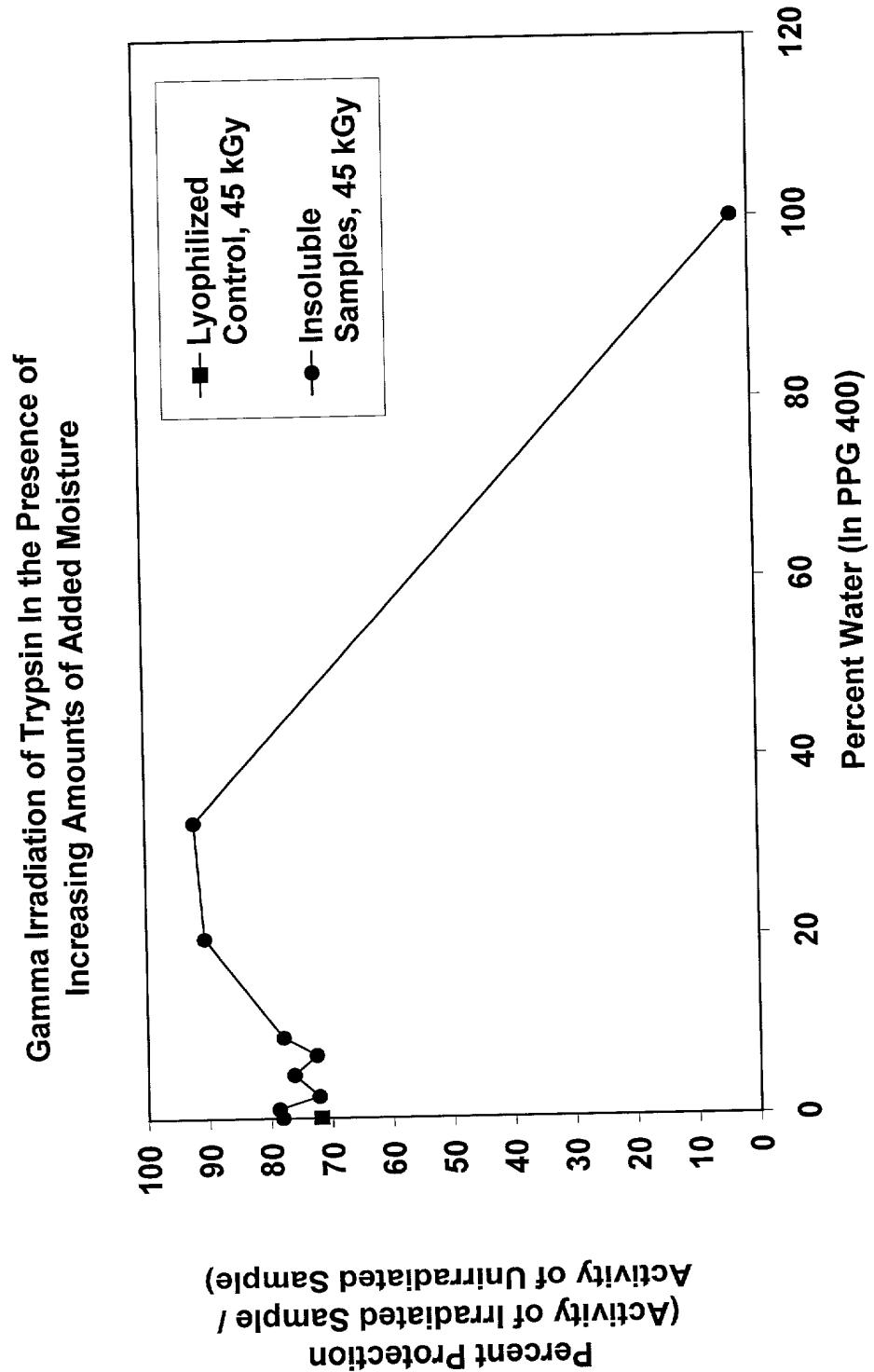


FIG. 3

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Gamma Irradiation of Hydrolyzed Heart Valve  
Cusps in the Presence of PPG 400

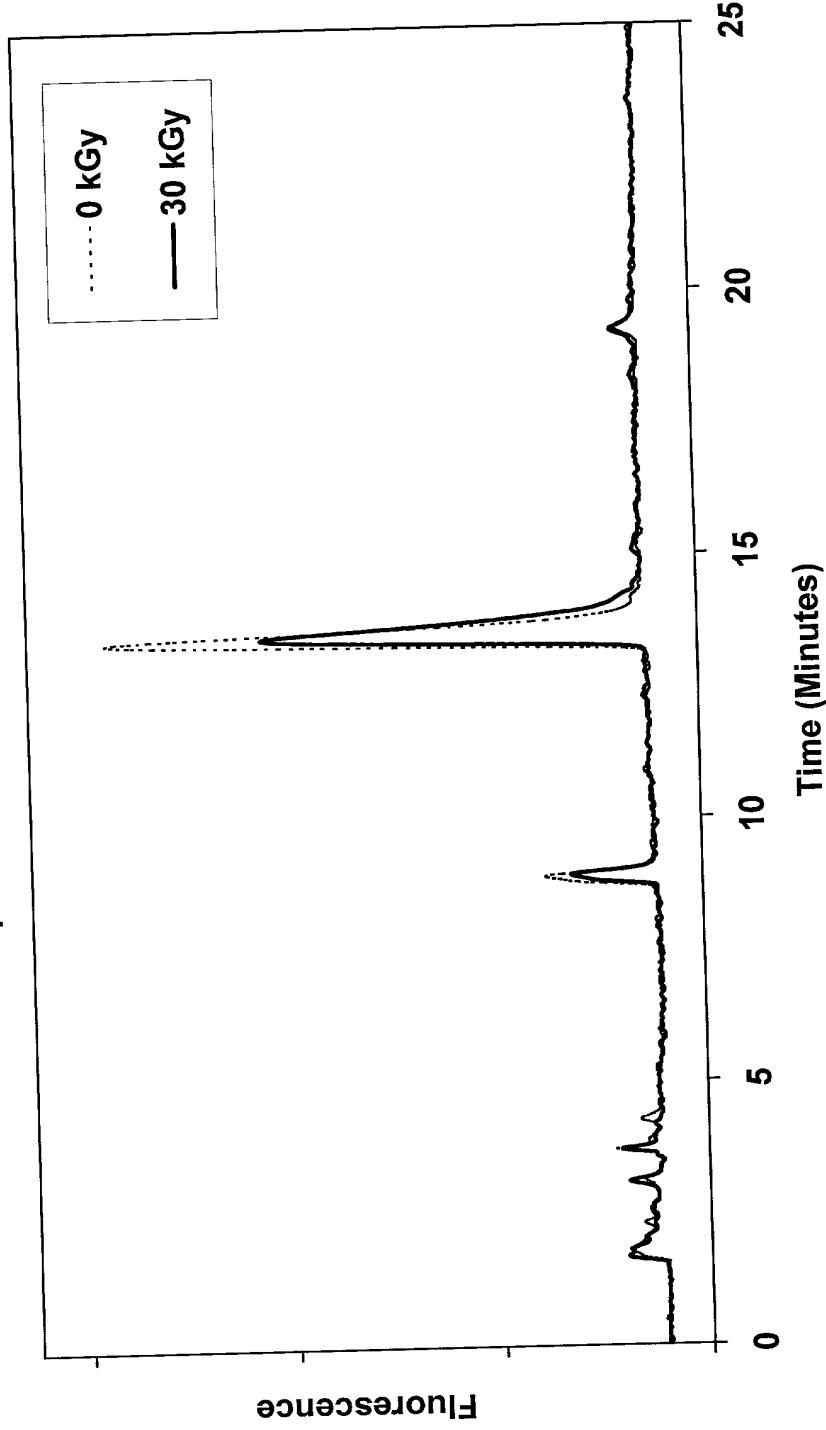


FIG. 4A

Gamma Irradiation of Hydrolyzed Heart Valve Cusps  
in the Presence of PPG 400 and 125 mM Trolox C

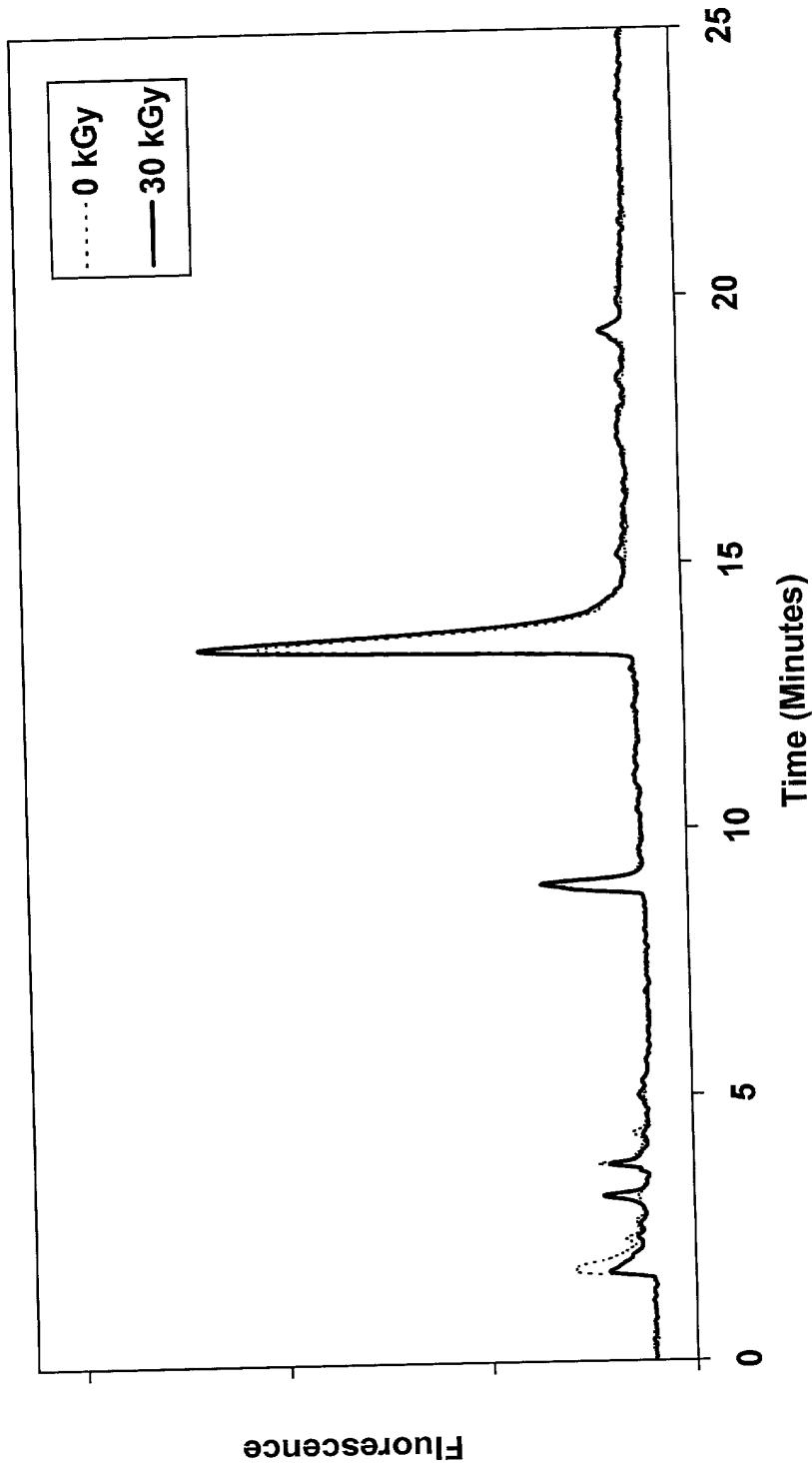


FIG. 4B

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Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PPG 400  
and a Stabilizer Mixture of 62.5mM TroloxC, 100mM Lipoic Acid,  
100mM Coumaric Acid, and 100mM n-Propyl Gallate

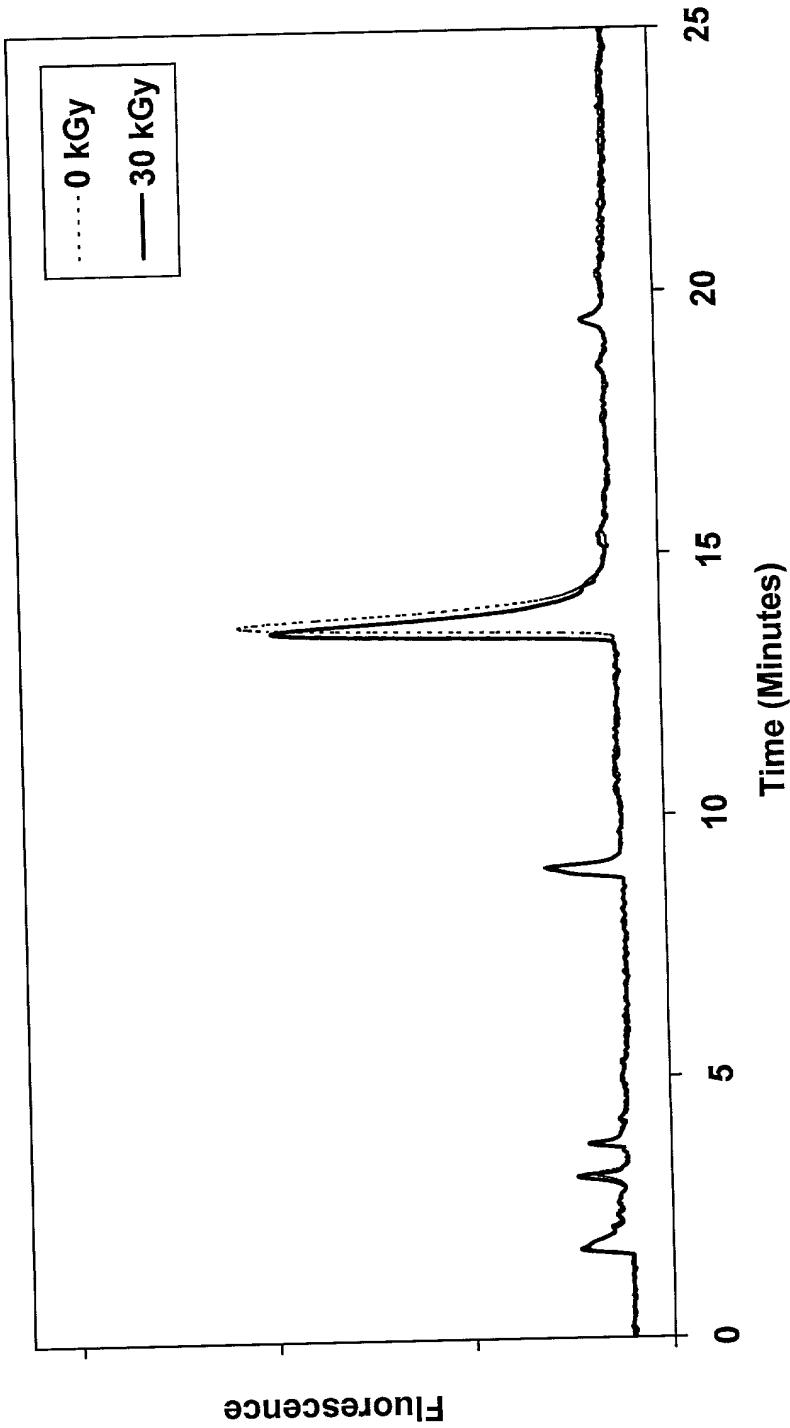
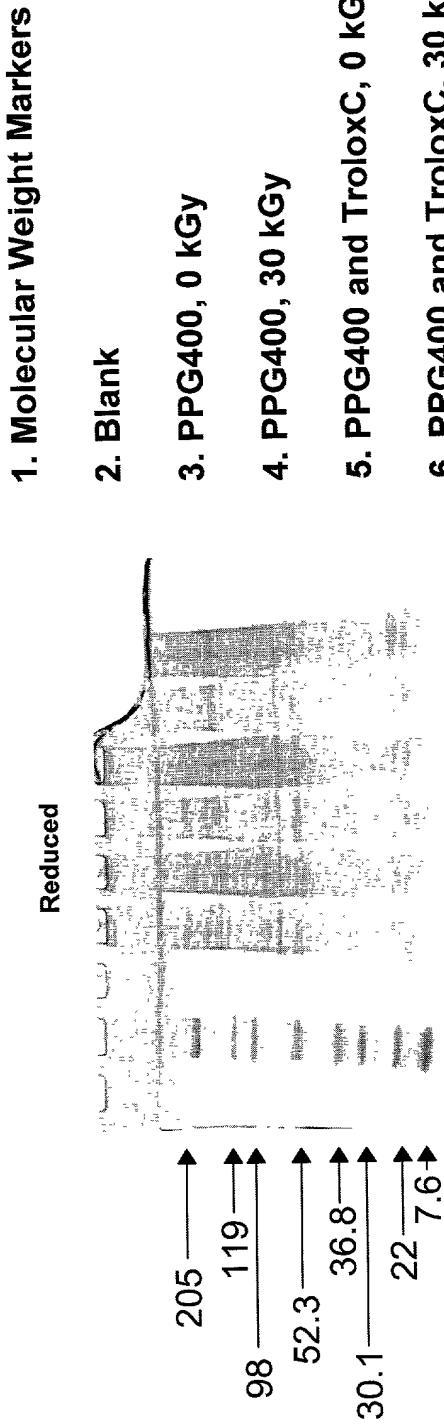


FIG. 4C

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**Gamma Irradiation of Porcine Heart Valve Cusps in the Presence  
of PPG400 with Various Stabilizers**



1 2 3 4 5 6 7 8

**FIG. 4D**

20 22 24 26 28 30 32 34 36 38 40

Gamma Irradiation of Hydrolyzed Heart Valve  
Cusps in the Presence of PBS

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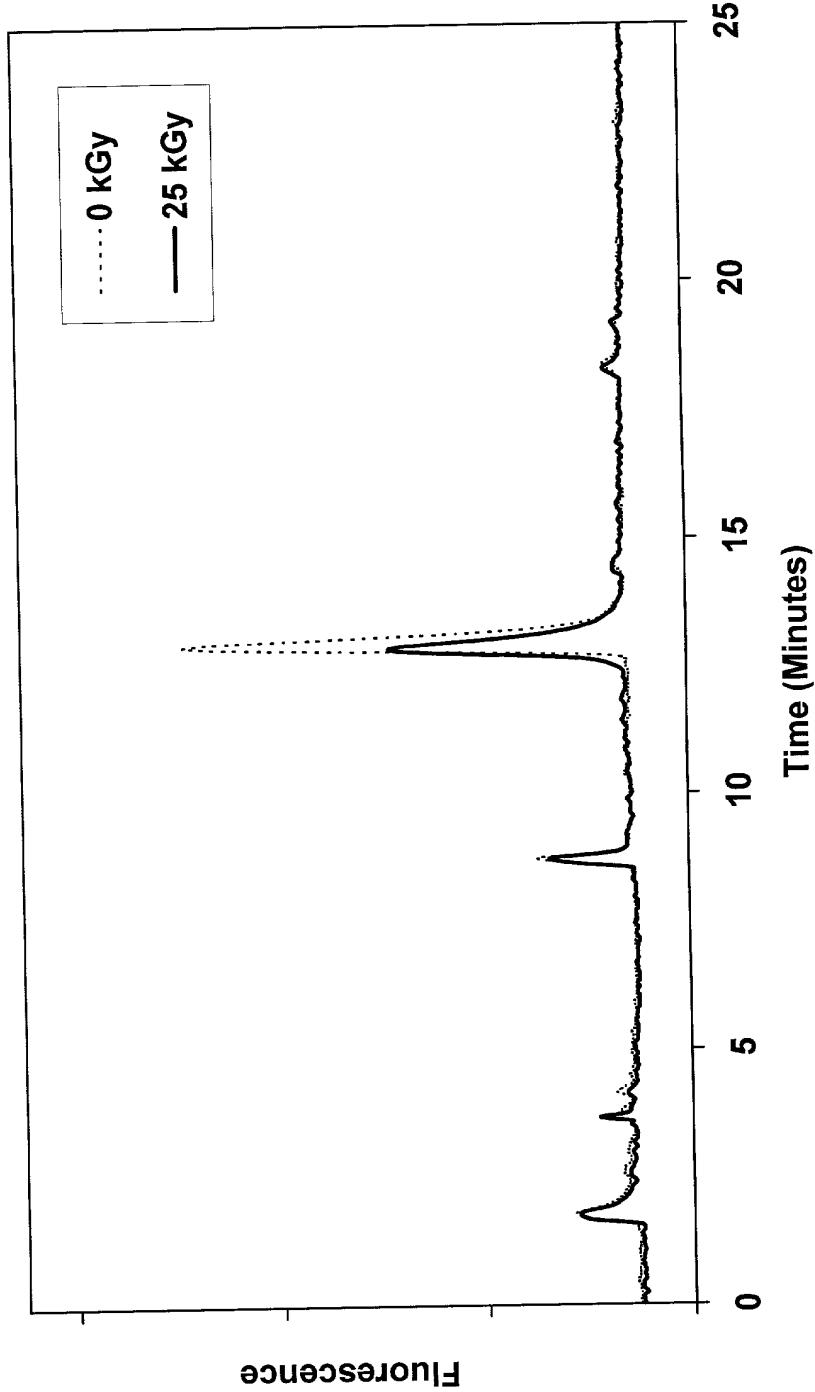


FIG. 5A

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Gamma Irradiation of Hydrolyzed Heart Valve  
Cusps in the Presence of PPG 400

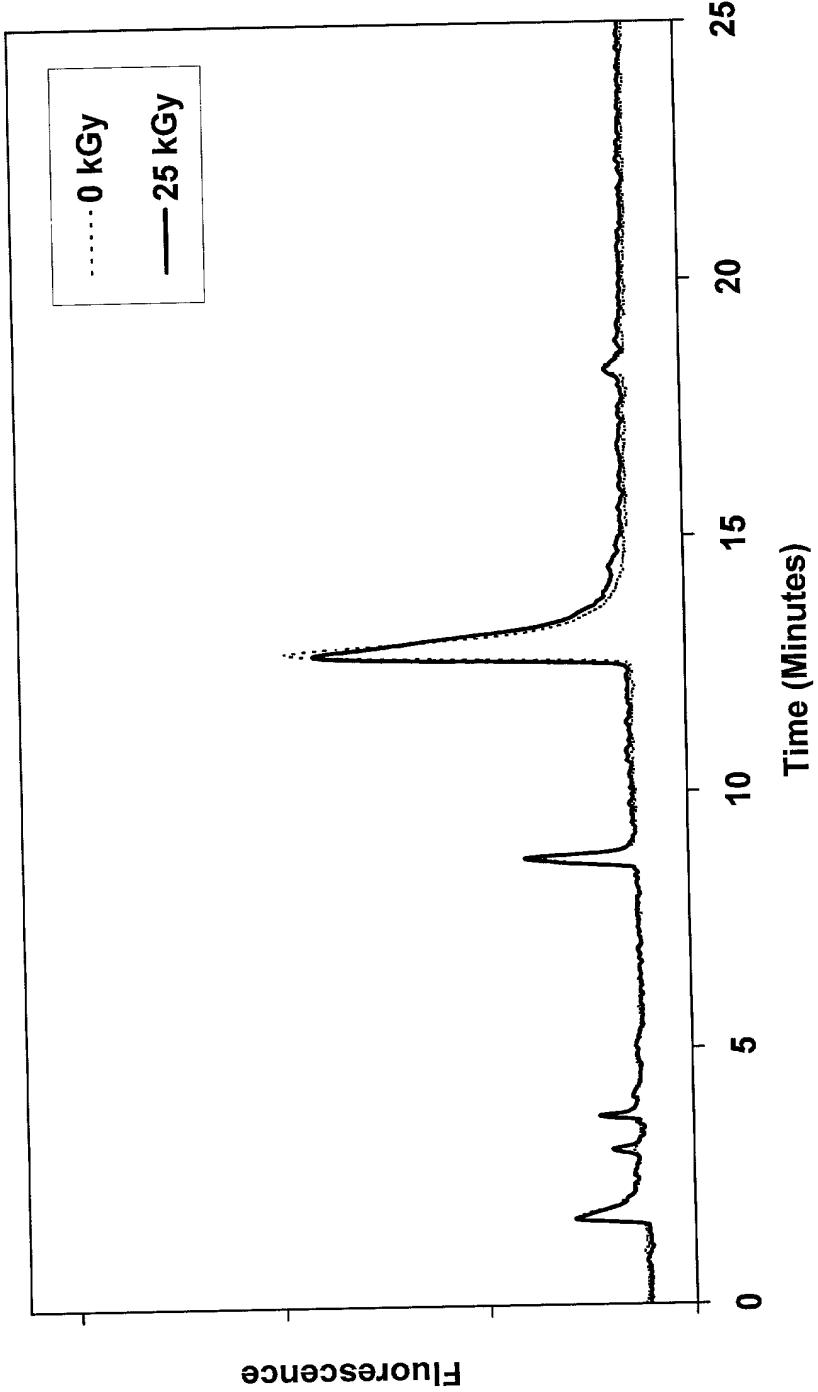


FIG. 5B

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Gamma Irradiation of Hydrolyzed Heart Valve  
Cusps in the Presence of 50% DMSO

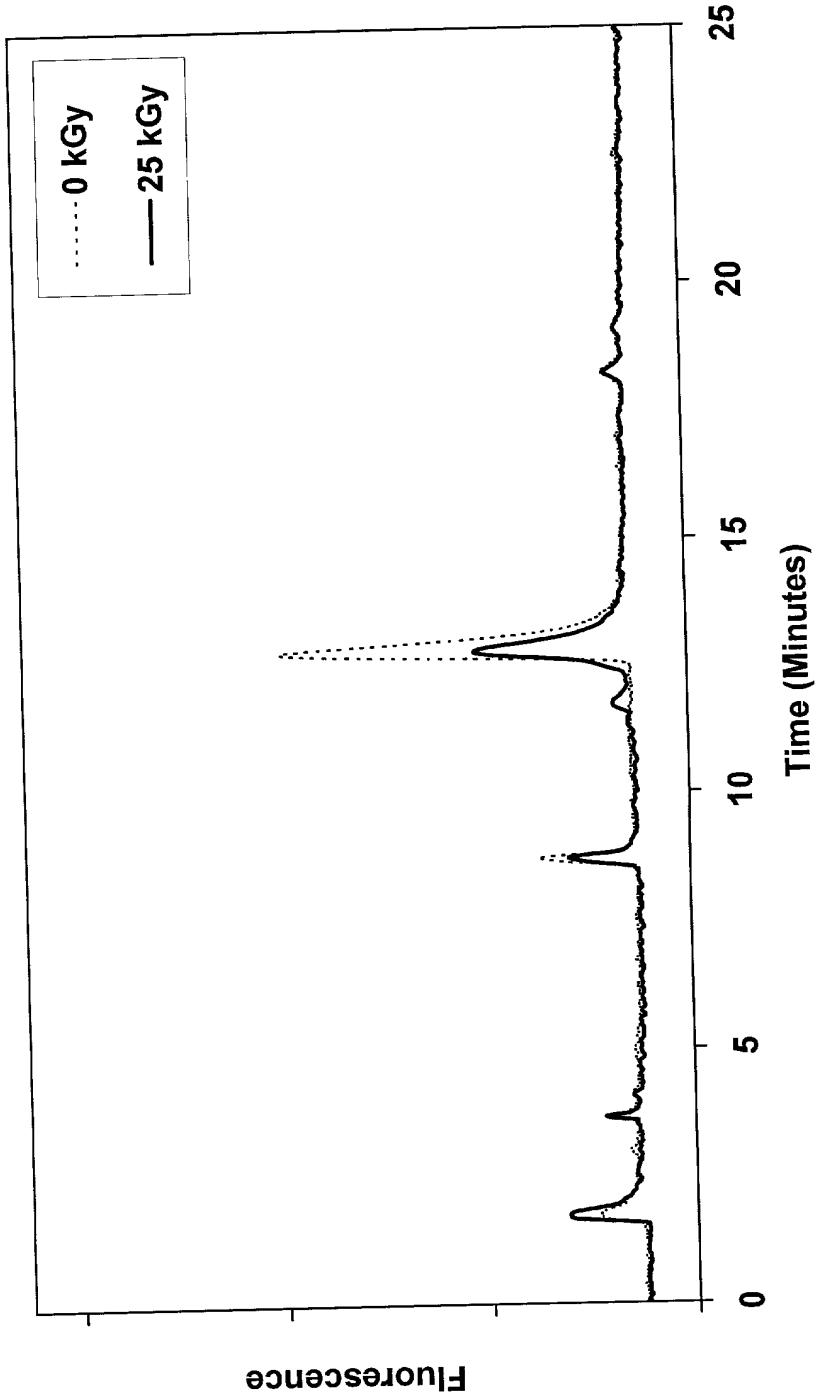
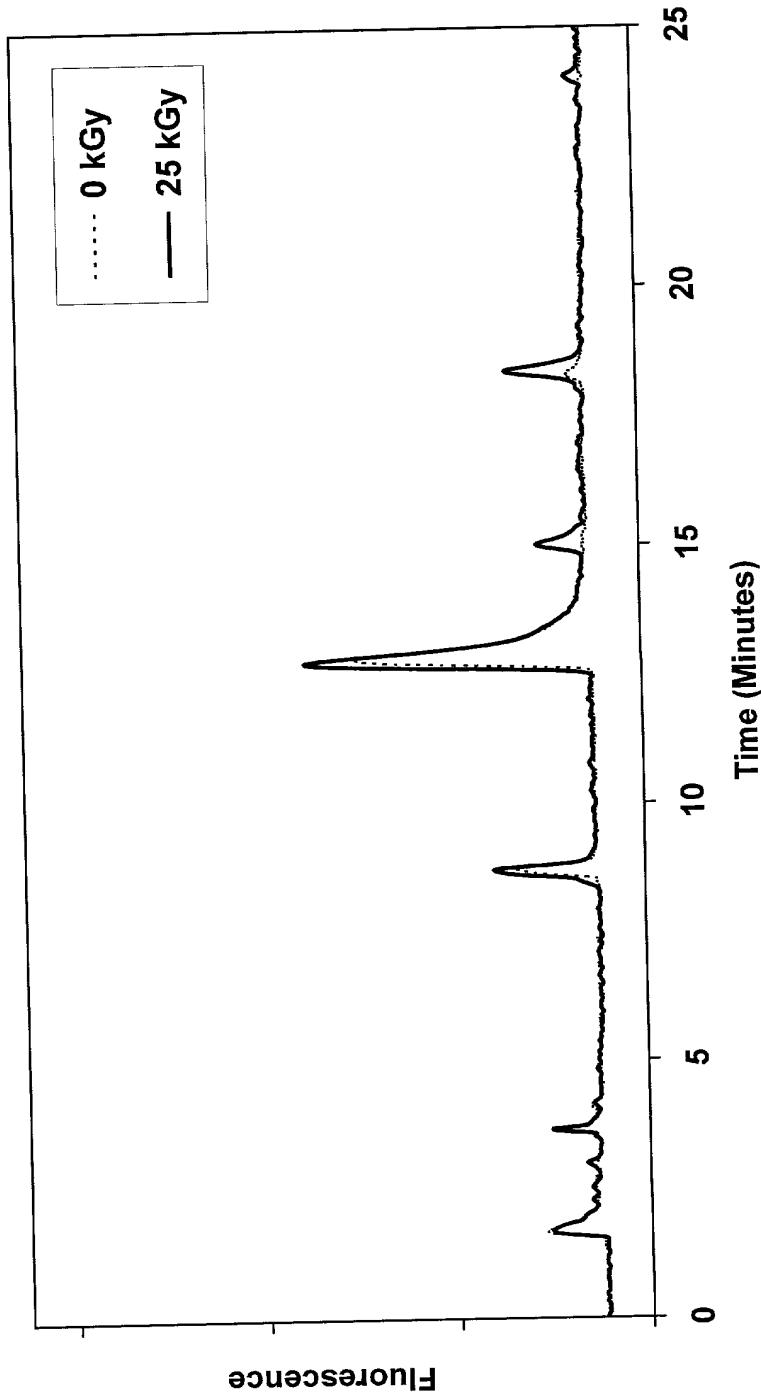


FIG. 5C

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**Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of 50% DMSO and a Stabilizer Mixture of 167 mM Ascorbate, 166 mM Coumaric Acid, and 100 mM n-Propyl Gallate**

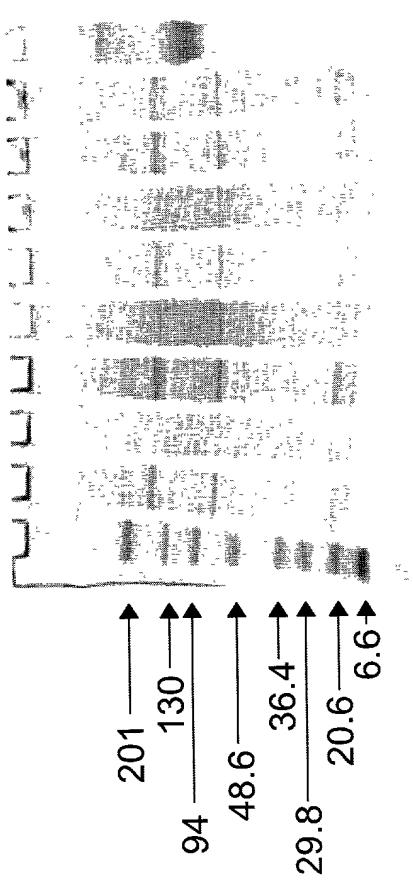


**FIG. 5D**

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**Gamma Irradiation of Porcine Heart Valve Cusps  
in the Presence of Various Solvents**

**1. Molecular Weight Markers**



**2. PBS, 0 kGy**

**3. PBS, 25 kGy**

**4. PPG400, 0 kGy**

**5. PPG400, 25 kGy**

**6. 50% DMSO, 0 kGy**

**7. 50% DMSO, 25 kGy**

**8. 50% DMSO and Cocktail of Ascorbate,  
Coumaric Acid, and n-Propyl Gallate, 0 kGy**

**9. 50% DMSO and Cocktail of Ascorbate,  
Coumaric Acid, and n-Propyl Gallate, 25 kGy**

**FIG. 5E**

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Gamma Irradiation of Hydrolyzed Heart Valve  
Cusps in the Presence of PBS

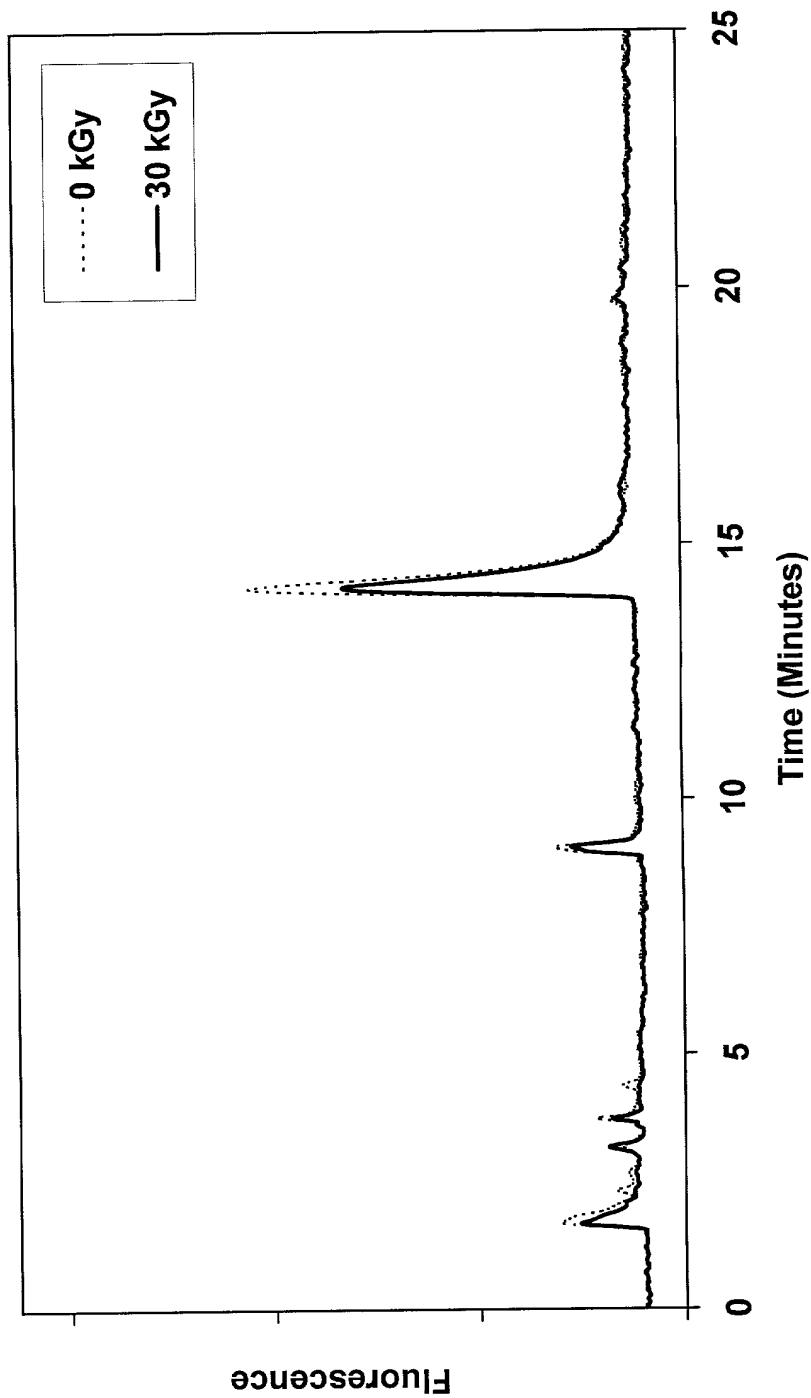
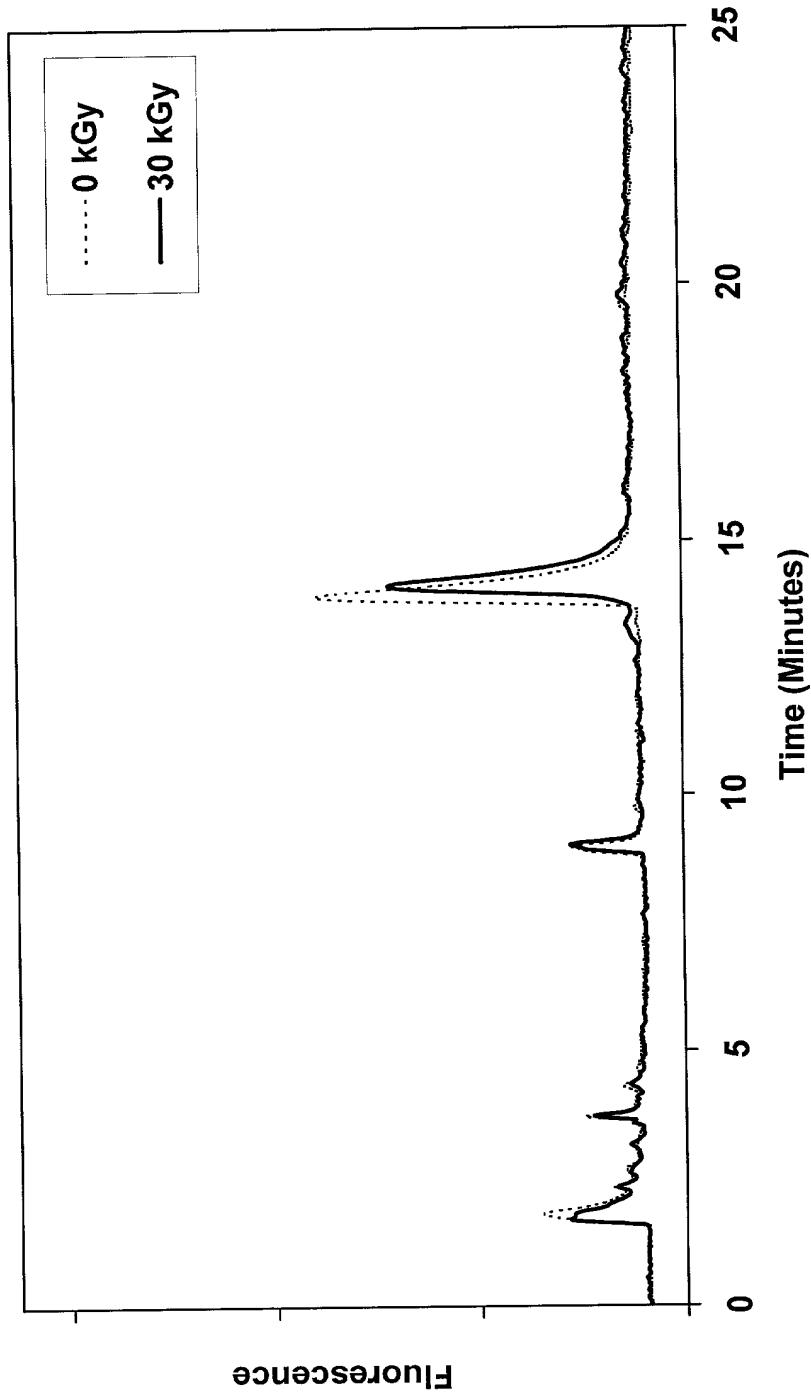


FIG. 6A

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**Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of a Cryopreservative (Containing Approximately 20% DMSO)**



**FIG. 6B**

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Gamma Irradiation of Hydrolyzed Heart Valve  
Cusps in the Presence of 50% DMSO

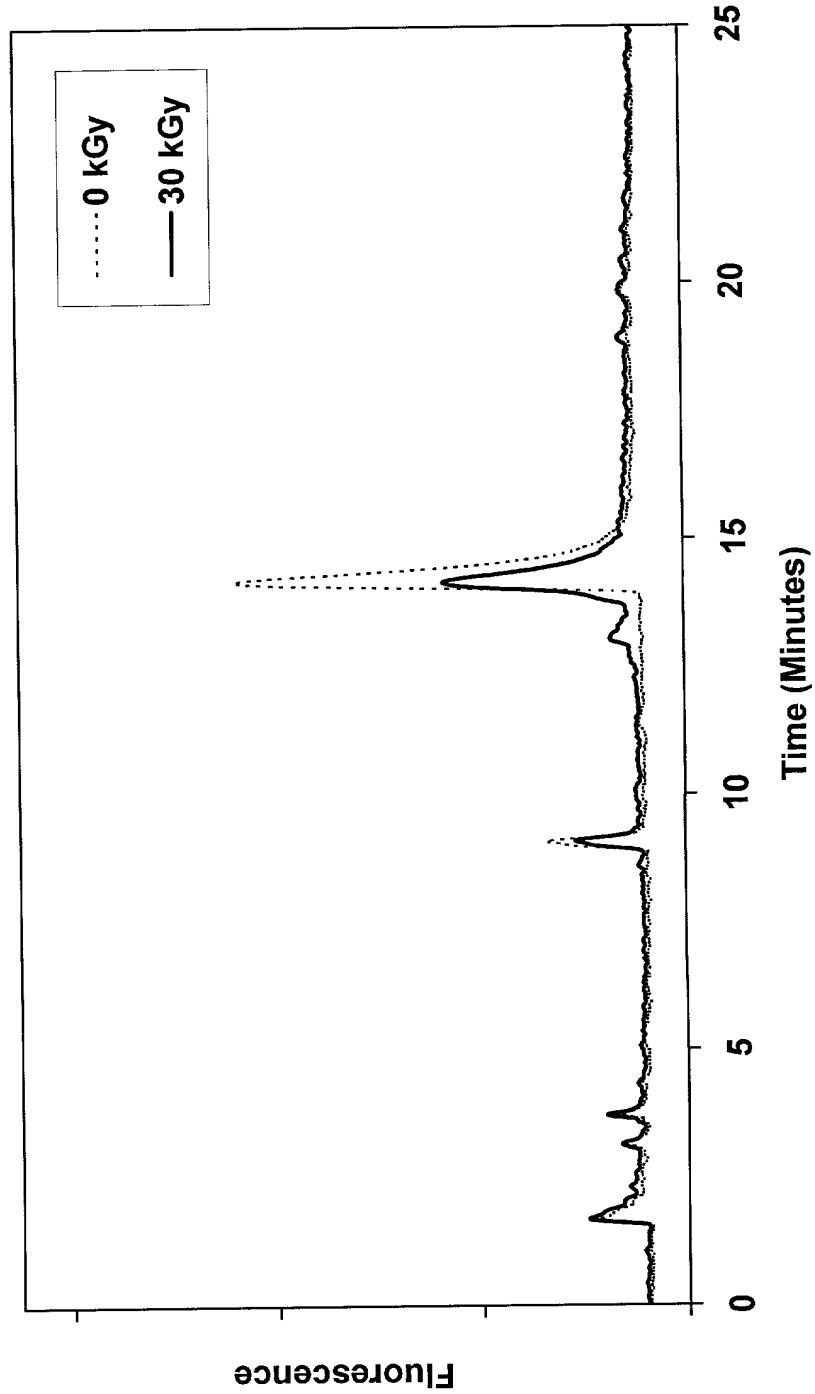


FIG. 6C

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Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the  
Presence of 50% DMSO and Ascorbate

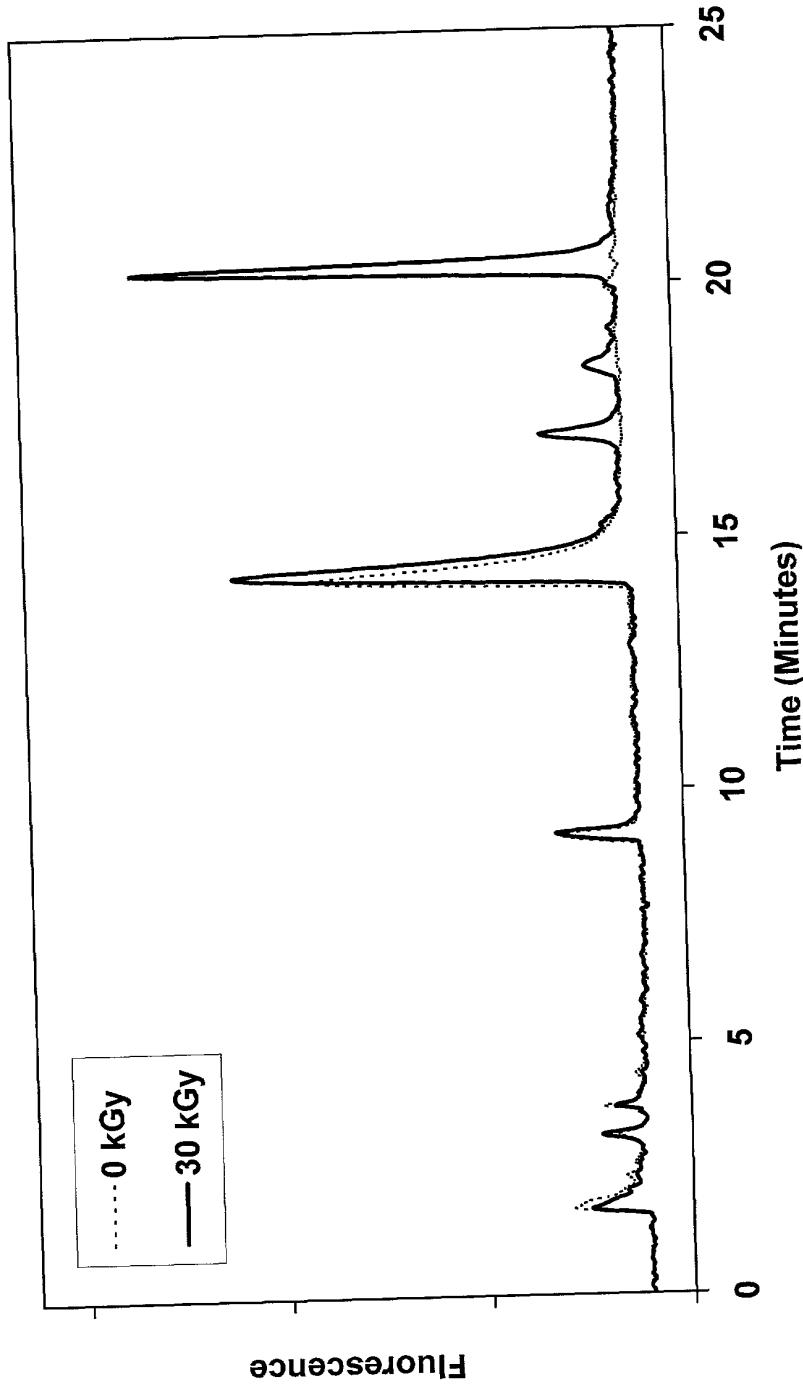
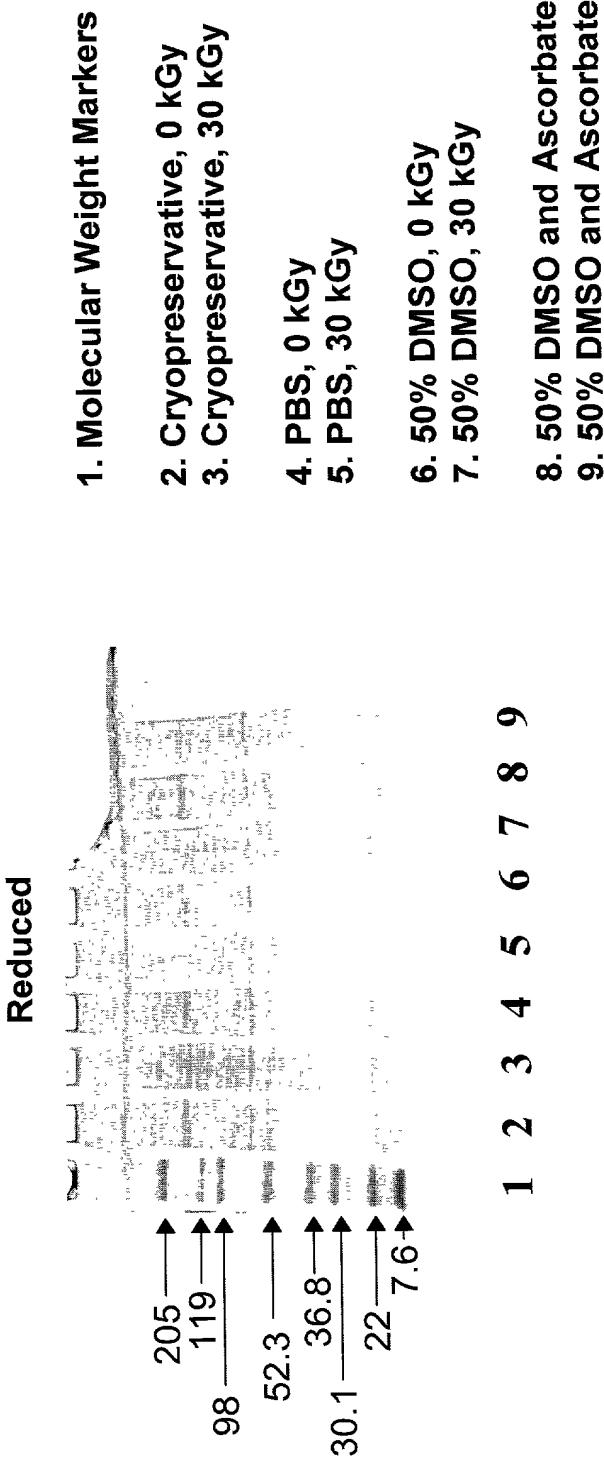


FIG. 6D

**Gamma Irradiation of Porcine Heart Valve Cusps in the  
Presence of Various Solvents**



**FIG. 6E**

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Gamma Irradiation of Hydrolyzed Heart Valve Cusps  
in the Presence of PBS

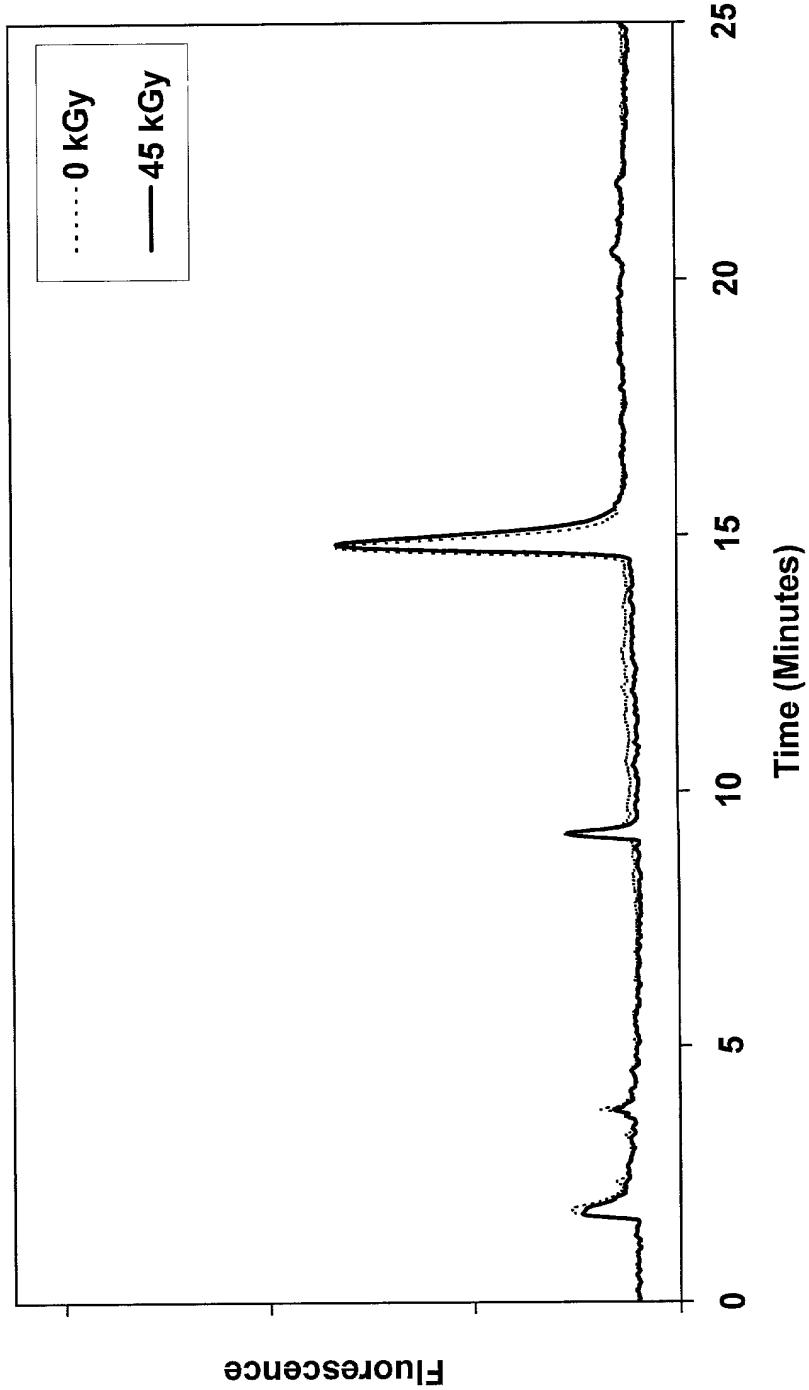


FIG. 7A

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Gamma Irradiation of Hydrolyzed Heart Valve Cusps  
in the Presence of PBS and Ascorbate

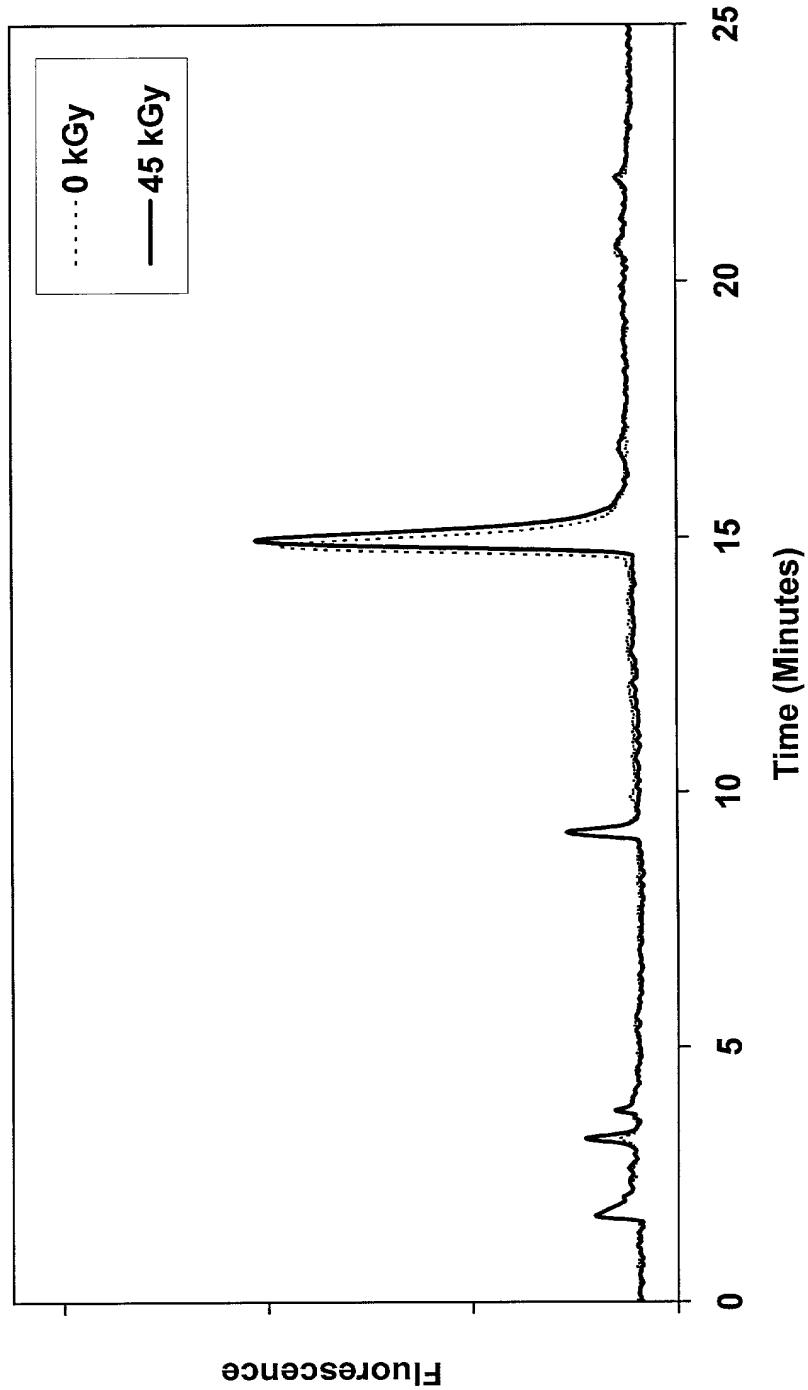


FIG. 7B

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**Gamma Irradiation of Hydrolyzed Heart Valve Cusps  
in the Presence of PPG 400**

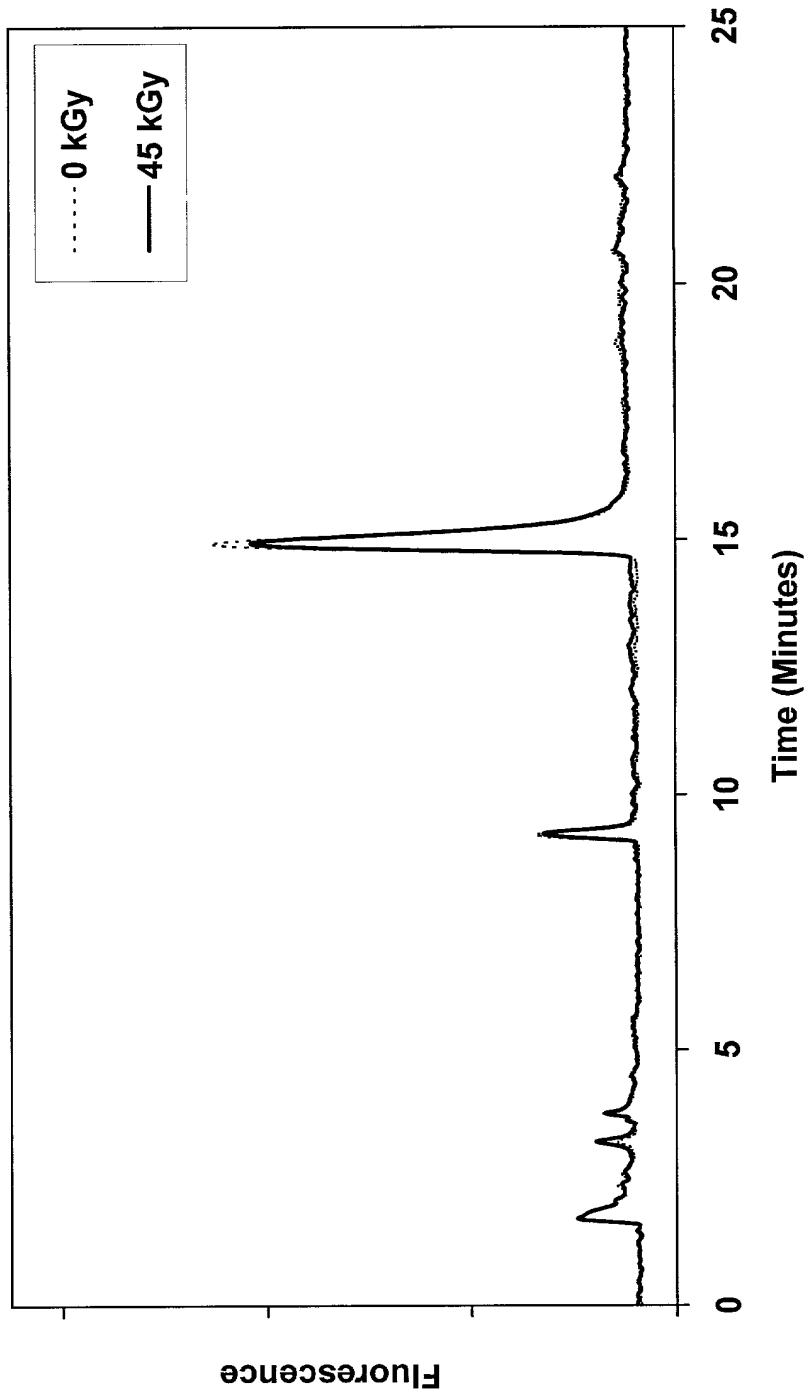


FIG. 7C

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Gamma Irradiation of Hydrolyzed Heart Valve Cusps Dehydrated with PPG  
400 and Rehydrated in the Presence of PBS and Ascorbate

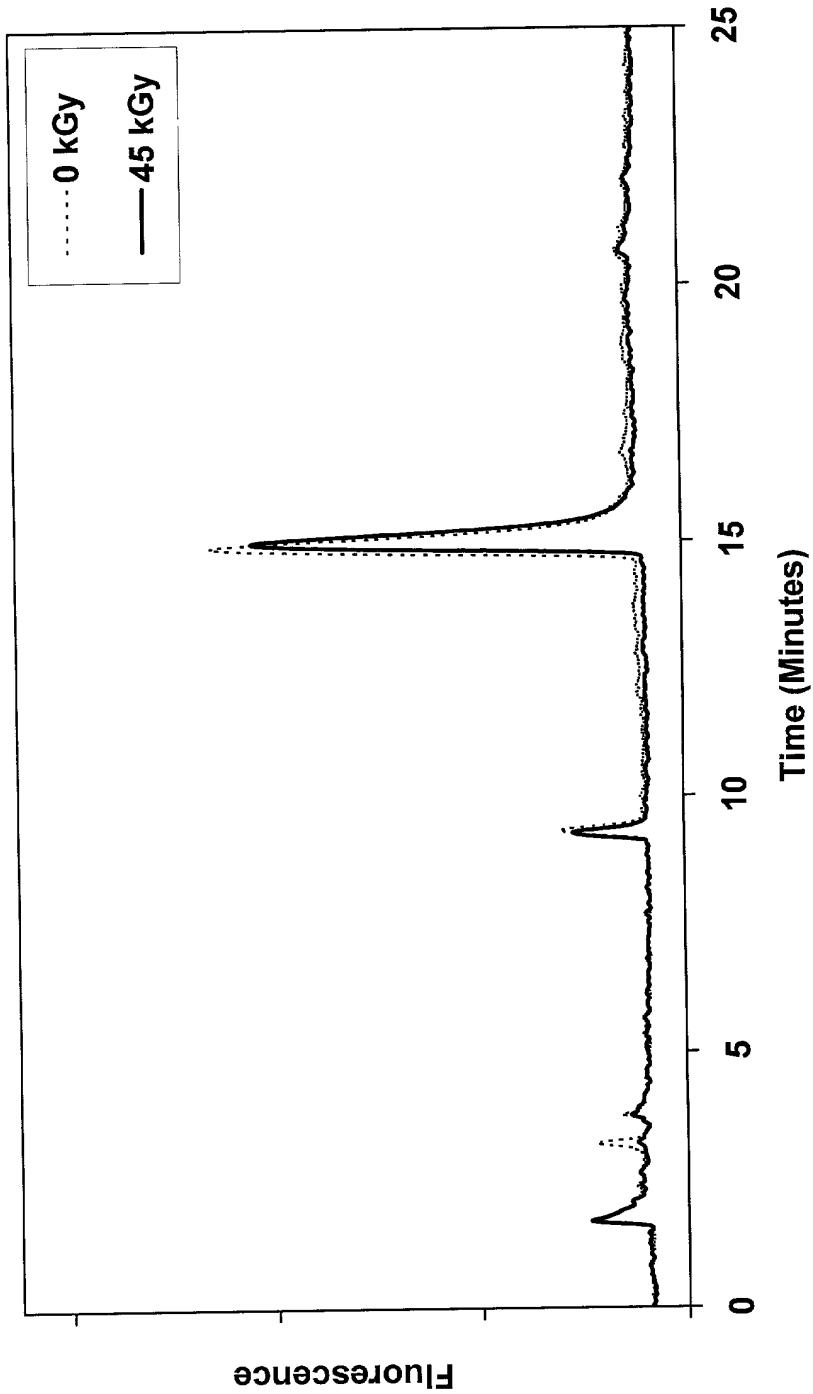
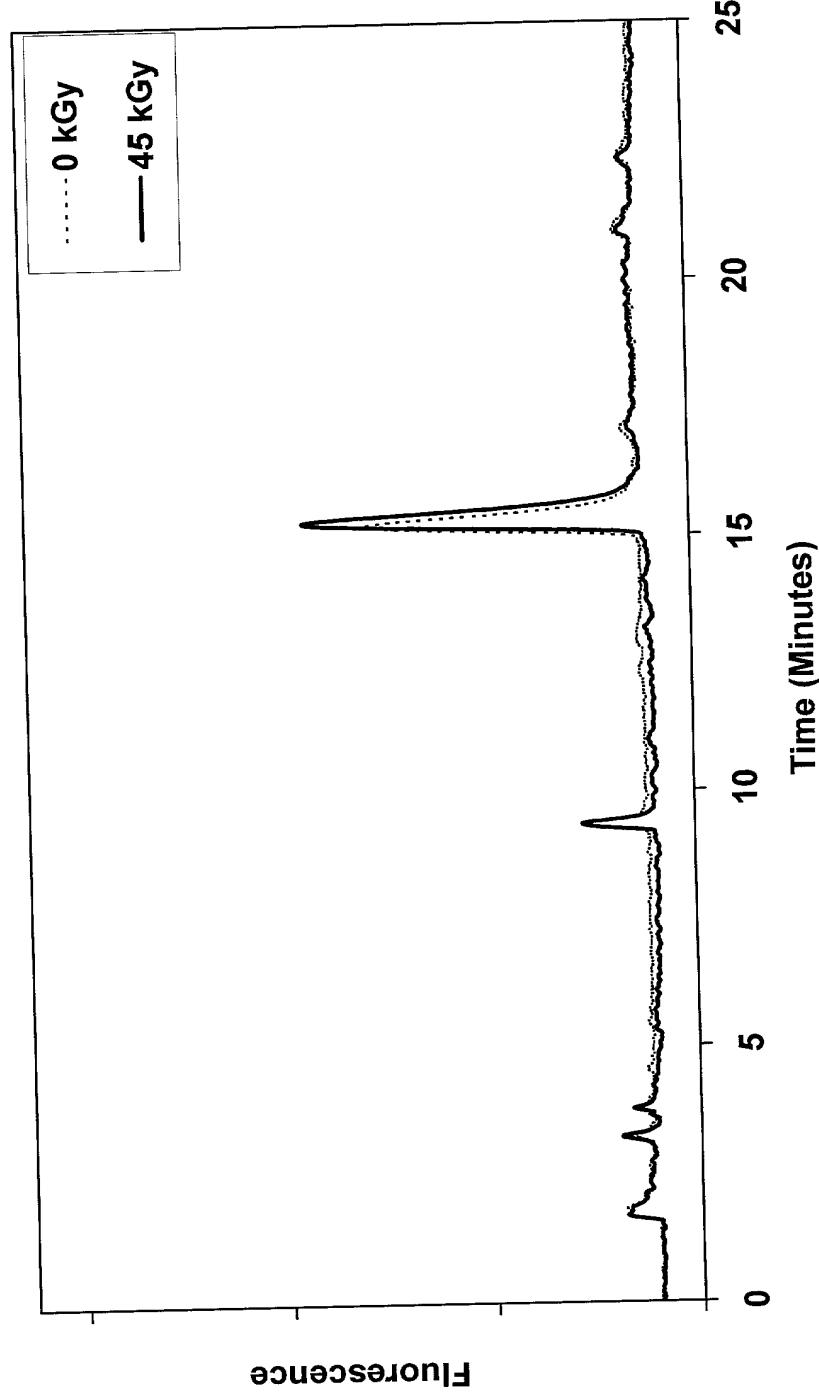


FIG. 7D

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**Gamma Irradiation of Hydrolyzed Heart Valve Cusps  
in the Presence of 50% DMSO**



**FIG. 7E**

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Gamma Irradiation of Hydrolyzed Heart Valve Cusps  
in the Presence of 50% DMSO and Ascorbate

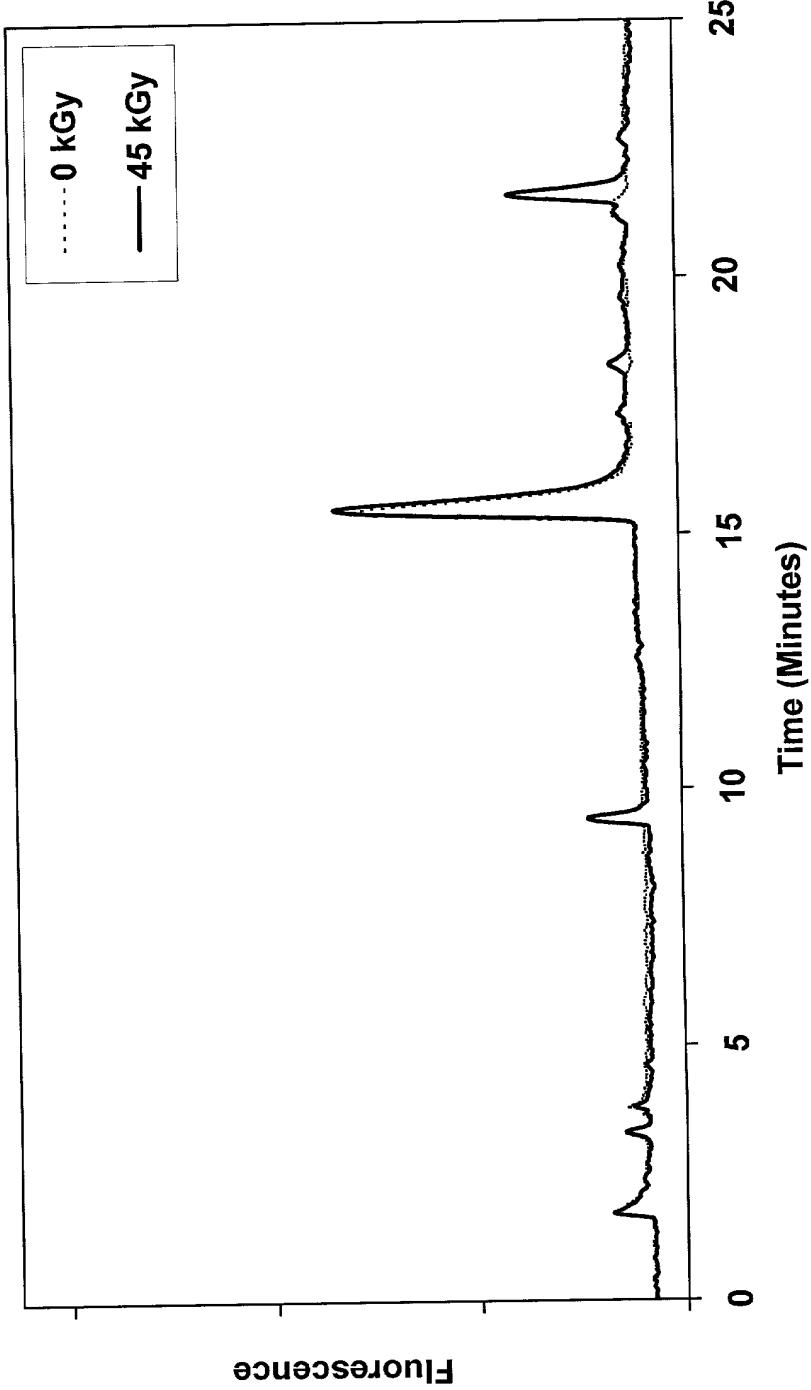
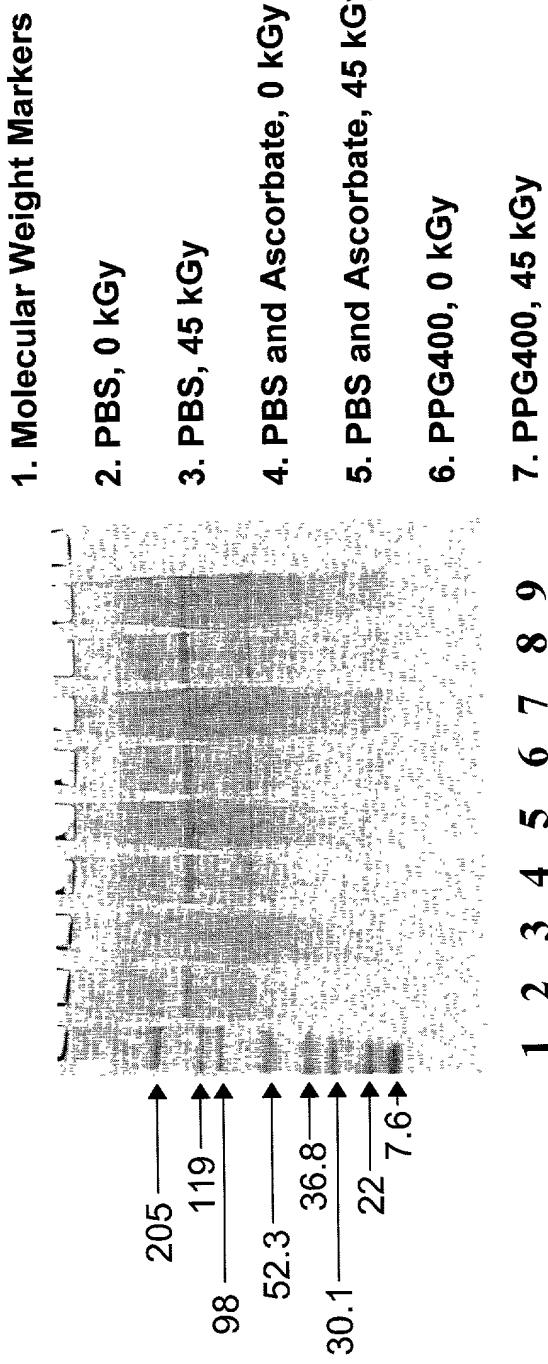


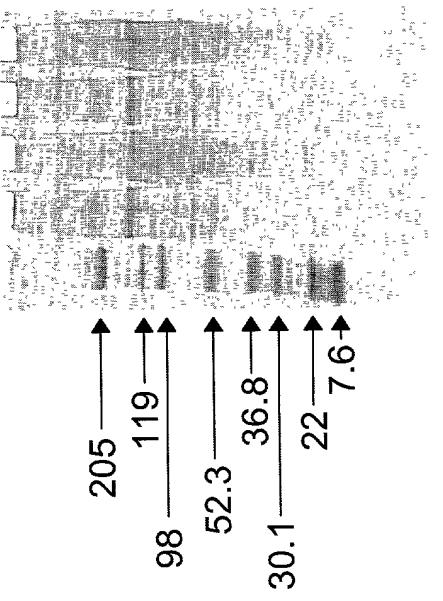
FIG. 7F

**Gamma Irradiation of Porcine Heart Valve Cusps in the  
Presence of Various Solvents**



**FIG. 7G**

**Gamma Irradiation of Porcine Heart Valve Cusps in the  
Presence of Various Solvents**



**1. Molecular Weight Markers**

2. 50% DMSO, 0 kGy
3. 50% DMSO, 45 kGy
4. 50% DMSO and Ascorbate, 0 kGy
5. 50% DMSO and Ascorbate, 45 kGy

1 2 3 4 5

**FIG. 7H**